



CALL FOR THE SELECTION OF TEMPORARY RESEARCH PERSONNEL TO CARRY OUT SPECIFIC SCIENTIFIC AND TECHNICAL RESEARCH PROJECTS.

The COIE is requested to make a public call for the selection of temporary research personnel to carry out specific scientific and technical research projects to be funded, in accordance with the following:

RULES

FIRST.- PURPOSE OF THE CALL

The purpose of the call is the selection of research personnel (No. of post offered 1), to carry out the Project 'ADVANCED METHODOLOGIES FOR ANALYSIS AND SIMULATION OF NUCLEAR POWER PLANT FIRE', whose principal investigator is Mr / Mrs. BORJA ALONSO OREÑA of the department / institute Transport and Technology of Projects and Processes and its funding will be covered by the budget application 09.C401.649 corresponding to the following modality Contratos al amparo del art. 83 de la LOMLOU

SECOND.- FUNCTIONS AND TASKS OF THE POSITION

Analysis and simulation (PRISME 3)

- Participation in the application of the simulation methodology to the proposed scenarios.
- Collaboration in the analysis of the results obtained by comparing them with experimental tests. Simulation of real scenarios and non-parallelepiped geometries.
- Collaboration in the application of the simulation methodology to the proposed scenarios.

THIRD.- POSITION CATEGORY AND QUALIFICATION REQUIRED

Researcher Type 2 - Doctor (with at least two years from the date on which the doctoral thesis was read)

All Doctorates

FOURTH.- REQUIREMENTS FOR APPLICANTS

Applicants must meet the following requirements:

- 1) Have Spanish nationality or have the nationality of a member state of the European Union or be from any of the states in which, by virtue of international treaties established by the E.U. and ratified by Spain, the free movement of workers is applicable. Likewise, applicants with a nationality other than that mentioned above may submit their application, provided they can prove that they are in possession of a work and residence permit at the time the contract is formalized.
- 2) To be in possession of the qualification required in this call. Documents issued abroad that are to be used in this procedure must be legalized in accordance with the current regulations (Management circular number 134).
- 3) Persons who have had an employment contract for access to the Spanish science, technology and innovation system, governed by article 22 of Law 14/2011 of 1 June on Science, Technology and Innovation of a duration equal to or greater than 5 years, taking into account the duration of this job offer, may not participate in the selection process.

FIFTH.- APPLICATIONS

In addition to registering for the offer through UC Placement Agency Portal (<https://web.unican.es/agenciacolocacion>), applicants must submit the following documentation to the department/unit within the 5 working days, counting from the day following its publication, or send all scanned by e-mail (secretaria.transportes@unican.es), indicating the offer to which it refers:

- 'Application form for calls for selection of research personnel', completed. Available on the web site of the placement agency.
- Photocopy of the National Identity Card, or equivalent document.
- Photocopy of the degree or proof of having paid the corresponding fee for issuance of the degree.
- Academic and professional curriculum vitae and supporting documents of the submitted merits.

SIXTH .- DURATION



In order to proceed with the formalisation of the contract once the selection process has been passed, the selected person must meet the requirements established in Article 15.5 of Royal Legislative Decree 2/2015, of 23 October, approving the revised text of the Workers' Statute Law (amended by Royal Decree-Law 32/2021, of 28 December).

This contract for circumstances of production will have a duration of 6 months (maximum of 6 months) and is signed in accordance with the provisions of section 1 and 2 of article 15 of Royal Legislative Decree 2/2015, which approves the revised text of the Workers' Statute Law.

SEVENTH.- REMUNERATION

The employee's salary will be 16724 (gross salary including the proportional part of the extraordinary payments during the contract).

EIGHTH.- MERITS ASSESSMENT

Once the deadline for the presentation of applications has expired, the Selection Committee shall proceed to evaluate the merits based on the documentation provided, and may agree, if deemed convenient, to conduct a personal interview with all or some of the candidates.

NINTH.- EVALUATION COMMISSION

The evaluation committee will be made up of the following persons:

Mr/Mrs Borja Alonso Oreña

Mr/Mrs Mariano Lázaro Urrutia

Mr/Mrs Gemma Ortiz Romero

In Santander on October 21, 2022

Signed by the Project Responsible



ANNEX I MERITS TO BE VALUED

OTHER OFFICIAL QUALIFICATIONS:

5 POINTS

PhD in the field of computational modelling and simulation of human behaviour in emergencies.

EXPERIENCE IN RELATION TO THE WORK TO BE PERFORMED:

55 POINTS

Demonstrable experience in the field of Fire Safety and Fire and Evacuation Computer Modeling and Simulation.

Computational Fire and Evacuation Modeling and Simulation. The candidate must have, at least, the following requirements

at least the following requirements:

- Demonstrable knowledge related to mathematical methods and computational fire modeling and simulation. It is essential to use FDS and other models.
- Demonstrable knowledge in Fire Safety research.
- Experience in the use of agent-based models such as STEPS, PATHFINDER, MASSMOTION, GridFlow and PTV Viswalk.
- Knowledge and experience in Monte Carlo methods and experience in the development and validation of stochastic models.
- Experience in project management.
- Experience in the design and analysis in safety research.

COMPLEMENTARY TRAINING:

5 POINTS

Having courses in fire safety engineering

LANGUAGES:

10 POINTS

Minimum level of English B2. A good level spoken and written English would be evaluated

OTHER MERITS:

25 POINTS

Participation in competitive and non-competitive R+D+i projects.

- Papers in high impact journals.
- Participation in international conferences and events
- A good command of English, both spoken and written, would be an asset, even if the corresponding qualification has not been obtained.
- Availability to travel internationally.

PERSONAL INTERVIEW:

0 POINTS

A personal interview will be held with the candidate with the highest score to check that his or her CV matches the job profile.